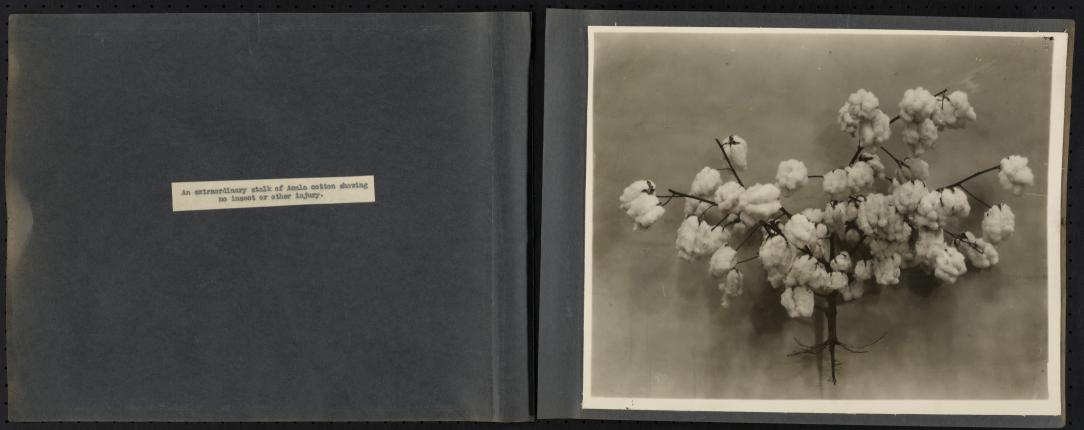
Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices



UNITED STATES DEPARTMENT OF AGRICULTURE FLANT QUARANTINE AND CONTROL ADMINISTRATION-Pink Bollworm Project 801 Smith-Young Tower San Antonio, Texas.

MISCELLATEOUS PIOTORES
PICK BOLLWOM





Close-up view of cotton field, El Paso Valley, Texas



Bolls from stalk of Acala cotton





A stalk of cotton showing all bolls destroyed by the pink bollworm.



(a) A field of Pima cotton, Arizona.
(b) A field of Upland cotton, Safford District.
(c) A field of cotton in June.











Inspectors in field looking for pink bollworm.





(a) Ivan Shiller, the inspector who found the first pink bollworm in the United States at Hearne, Texas in 1917.
(b) A group of inspectors examining bolls.
(c) Examining on trash.







A group of State and Federal officials, 1915, seeing pink bollworm in the Trinity Bay section. Beginning at the left: Wilmon Newell, Plant Commissioner of Morida; Ernest E. Scholl, Entomologist of Texas; K. H. Tumsend, Federal Horticultural Beard; Dr. W. D. Hunter, Member of Board; Fred W. Davis, Commissioner of Texas.





(a) 8 Pink bollwoms from the gin trash of one bale in the Laguna District of Mexico. (b) 4 Pink bollwoms, natural size.





(a) Typical damage of pink bollworm.

(b) All the bolls from fifty stalks taken at random in the Leguns District by Eng. Gabriel lite, Entomologist of the Republic of Mexico; M. C. Tanquary, Entomologist at the Texas Experimental Station; and, R. S. McDonald, Texas Department of Agriculture, 1921. The pile on the right contains 142 bolls totally ruined by the pink bollworm. The pile on the left contains 600 bolls more or less injured but still pickable.



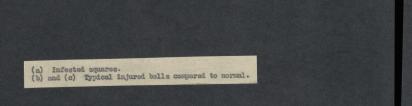


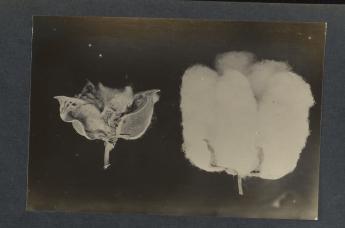
Pink bollworm in cotton bloom. In the right hand corner is a typical resetts condition, which the inspector needs to learn to look for.















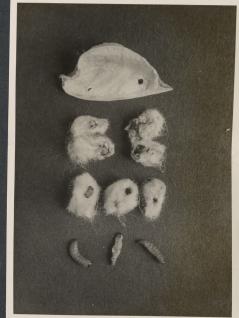


Typical injury.





Injury to lint and seed.

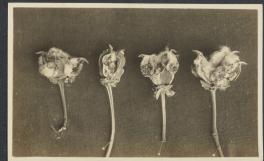


Showing pink bollworm natural size, double seed, and typical partition holes through the carpels.

(a) Left: Injury by the common bollworm and injury by the pink bollworm. Note the difference in size of the entrance hole of the common bollworm (Heliothis obsoleta) and the exit holes of the pink bollworm on the right.

(b) Typical injury to small bolls by the pink bollworm.





Typical cotton cins.



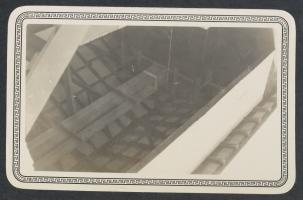


Cotton gin and seed house

(a) The seed house adjoining a cotton gin where sterilized seed are stored. Note the customer's boxes in the entrance, which receives seed from the sterilizer placed immediately under the roof.

(b) Showing the sterilizer passing beneath the roof.





Showing gin waste accumulated in the vicinity of gins.





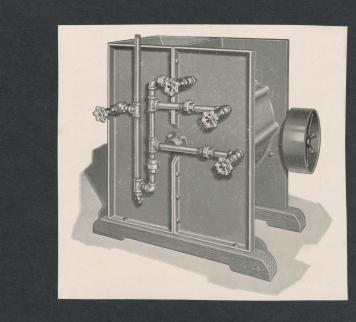


(a) An accumulation of gin trash.
(b) Interior view of gin showing part of a sterilizer.





The Rylander Drum Sterilizer.



Rylander Live Steam Sterilizer

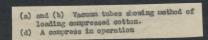


Vacuum fumigation tube.

Small vacuum fumigation tube for fumigating semples and single bales.

















Interior of a cotton compress.



Exterior views of cotton oil mills showing baled linters stacked on the yard.

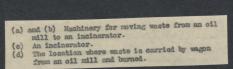








Cotton in warehouses.















(a) Pink bollworm infested clara.
(b) Pink bollworm infested seed pods of Hibisous syriacus.

Ootton sproute growing from over-wintering roots, called in Mexico, soca; called in the United States, volunteer.

Field cleaning. Raking the stalks after cutting.





Field cleaning. Taking the stalks out by hand. Picking up the final leavings.



Field cleaning.
Raking the field and picking up the leavings.



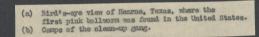


Field cleaning. Piling the stalks.

Field cleaning.
(a) Burning the stelks.
(b) Burning infested cotton, 1918.











A typical irrigation ditch in the western infested area.

A typical desert scene, which is the kind of country separating the various irrigated projects of the western infested district.

